

ORAL ARGUMENT NOT YET SCHEDULED

No. 23-1174 (L), 23-1221

**UNITED STATES COURT OF APPEALS FOR THE DISTRICT
OF COLUMBIA CIRCUIT**

CITY OF PORT ISABEL, *et al.*,*Petitioners,*

v.

FEDERAL ENERGY REGULATORY COMMISSION,

Respondent.

On Petition for Review of Orders of the
Federal Energy Regulatory Commission

**PETITIONERS' JOINT RULE 30(c)
PROOF OPENING BRIEF**

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Dated Dec. 6, 2023

**CERTIFICATE AS TO PARTIES, RULINGS,
AND RELATED CASES**

A. Parties

1. Petitioners

City of Port Isabel

No Rule 26.1 Corporate Disclosure Statement is required for Petitioner City of Port Isabel, a governmental entity.

The Carrizo Comecrudo Tribe of Texas

The Carrizo Comecrudo Tribe of Texas has no parent companies, and there are no publicly held companies that have a 10 percent or greater ownership interest in the Carrizo Comecrudo Tribe of Texas.

The Carrizo Comecrudo Tribe of Texas, a corporation organized and existing under the laws of the State of Texas, is a nonprofit organization dedicated to maintaining, preserving, and protecting the tribal identity of the Carrizo Comecrudo Tribe of Texas.

Sierra Club

Sierra Club has no parent companies, and there are no publicly held companies that have a 10 percent or greater ownership in it. Sierra Club is a nonprofit corporation organized and existing under the laws of the

State of California, dedicated to the protection and enjoyment of the environment.

Vecinos para el Bienestar de la Comunidad Costera

Vecinos para el Bienestar de la Comunidad Costera (“Vecinos”) has no parent companies, and there are no parent companies that have a 10 percent or greater ownership interest in Vecinos.

Vecinos, an association organized and existing under the laws of the State of Texas, is an unincorporated nonprofit association dedicated to protecting and improving the health, standard of living, and economic development of the coastal community in the Rio Grande Valley of South Texas.

2. Respondent

Federal Energy Regulatory Commission

3. Respondent-Intervenors

Rio Grande LNG, LLC

Rio Bravo Pipeline Company, LLC

B. Rulings Under Review

1. Order on Remand and Amending Section 7 Certificate, *Rio Grande LNG, LLC and Rio Bravo Pipeline Company, LLC*, 183 FERC ¶ 61,046 (Apr. 21, 2023).
2. Order Address Arguments Raised On Rehearing, *Rio Grande LNG, LLC and Rio Bravo Pipeline Company, LLC*, 185 FERC ¶ 61,080 (Oct. 27, 2023).

C. Statement of Related Cases

Pursuant to Circuit Rule 28(a)(1)(C), the undersigned states that some of the issues raised in this case are similar to the issues raised in the following case:

1. *City of Port Isabel, et al. v. FERC*, D.C. Circuit Case Nos. 23-1175 (L) and 23-1222 (concerning Texas LNG Brownsville LLC FERC Dkt. CP16-116). On November 15, 2023, the Court Clerk granted FERC's motion to calendar that case and this one before the same panel. (ECF No. 2027253)

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GLOSSARY

Authorization Order	<i>Rio Grande LNG</i> , 169 FERC ¶ 61,131 (Nov. 22, 2019), R.1314 [JA_____]
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
FERC	Federal Energy Regulatory Commission
JA_____	Joint Appendix page(s)
LNG	Liquefied Natural Gas
NEPA	National Environmental Policy Act
NAAQS	National Ambient Air Quality Standards
µg/m ³	Micrograms per cubic meter
PM _{2.5}	Fine Particulate Matter
Rehearing Order	<i>Order Addressing Arguments etc. re: Rio Grande LNG, LLC, et al.</i> , 185 FERC ¶ 61,080 (Oct. 27, 2023), R.3080 [JA_____]
Rehearing Request	<i>Sierra Club et al. Request for Rehearing of the April 21, 2023 Order under CP16-454 et al.</i> (May 22, 2023), R.3021 [JA_____]
Remand Order	<i>Order on Remand and Amending Section 7 Certificate re Rio Grande LNG</i> , 183 FERC ¶ 61,046 (April 21, 2023), R.3011 [JA_____]

JURISDICTIONAL STATEMENT

This petition challenges a FERC order (the “Remand Order”, R.3011 [JA___]) entered in multiple FERC dockets. Jurisdiction lies under the Natural Gas Act, 15 U.S.C. § 717r(b), because the Remand Order was issued pursuant to 15 U.S.C. §§ 717b(e) and § 717f(c). Petitioners City of Port Isabel, Sierra Club, and Vecinos para el Bienestar de al Comunidad Costera intervened in all FERC dockets at issue. Order Granting Authorizations Under Sections 3 and 7 of the Natural Gas Act, R.1314, P14 [JA___] (the “Authorization Order”). Petitioner Carrizo Comecrudo Tribe of Texas intervened solely in FERC Docket CP20-481, concerning changes to the pipeline design. R.1417 [JA___]. All petitioners (collectively, “Vecinos”) filed a timely request for rehearing of the Remand Order. R.3021 [JA___] (the “Rehearing Request”). When FERC failed to respond within 30 days, 15 U.S.C. § 717r(b), Vecinos filed a timely petition for review. On October 27, 2023, FERC issued an order responding to this rehearing request, R.3080 [JA___] (the “Rehearing Order”), and lodged the administrative record. Both the Remand Order and the Rehearing Order are now before this Court. *See Sierra Club v. FERC*, 68 F.4th 630, 646 (D.C. Cir. 2023),

vacated as moot by 2023 WL 5537562 (D.C. Cir. 2023) (“Mountain Valley”).

ISSUES FOR REVIEW

On remand from *Vecinos para el Bienestar de la Comunidad Costera v. FERC*, 6 F.4th 1321 (D.C. Cir. 2021) (“*Vecinos*”), was FERC’s decision to reissue authorization for the Rio Grande LNG terminal and the Rio Bravo pipelines arbitrary, where:

1. Although *Vecinos* concluded that FERC had violated NEPA, 6 F.4th at 1329-31, FERC reissued its approvals without additional NEPA process, even though the Remand Order rests on new information and concludes that impacts on environmental justice communities will be broader in scope than FERC had previously stated.
2. Although *Vecinos* instructed FERC to revisit its conclusion that the projects “would not have disproportionate adverse effects on minority and low-income residents,” on remand, FERC did not opine on whether air pollution from the projects

would have such an effect, even though FERC concluded that air pollution would affect many more such communities.

3. FERC's conclusion that the project's air pollution would not have significant impacts did not account for higher baseline data from an air monitor closer to the terminal and Port Isabel, and where FERC ignored cumulative ozone issues that FERC itself had previously recognized.
4. Although *Vecinos* instructed FERC to address whether the "social cost of carbon" protocol was "generally accepted in the scientific community" for purposes of 40 C.F.R. § 1502.21(c), 6 F.4th at 1329-30, FERC neither discussed acceptance of this tool nor explained why, if the tool was accepted, FERC could refuse to use it.
5. Although Rio Grande responded to *Vecinos* by filing an application with FERC to modify the terminal design to incorporate carbon capture and sequestration, FERC refused to consider that proposal when reconsidering the underlying terminal authorization.

STATUTES AND REGULATIONS

Pertinent statutes and regulations are reproduced in an addendum.

STATEMENT OF THE CASE

I. INTRODUCTION

In *Vecinos para el Bienestar de la Comunidad Costera v. FERC*, 6 F.4th 1321 (D.C. Cir. 2021) , this Court held that in approving the Rio Grande LNG terminal and associate Rio Bravo pipeline, FERC’s analyses of environmental justice and greenhouse gas emissions violated both the National Environmental Policy Act (“NEPA”), 42 U.S.C. § 4332, and the Natural Gas Act, 15 U.S.C. §§ 717b, 717f. After remand, FERC has reauthorized these projects. But FERC has disregarded the Court’s instructions, and failed to correct its prior errors.

On environmental justice, *Vecinos* held that FERC failed to explain its decision to limit its analysis of impacts on minority and low-income communities to within two miles of the terminal, and FERC’s conclusion that many of the projects’ impacts, including air pollution, would extend much further. 6 F.4th at 1330-31. *Vecinos* remanded with instructions to address this discrepancy and revisit FERC’s “its conclusion that the

projects “would not have disproportionate adverse effects on minority and low-income residents in the area.” *Id.* at 1331.

On remand, FERC did not opine whether the air pollution would have disproportionate and adverse impacts on environmental justice communities. FERC concluded that the impacts of air pollution would be insignificant, but as FERC itself recognized, “insignificant” impacts can still have a disproportionate adverse environmental justice impact. Indeed, FERC concluded that the impacts of the pipeline would be disproportionate and adverse but insignificant. FERC’s failure to answer the question *Vecinos* posed was arbitrary. FERC also failed to support its underlying assertion that the projects’ air pollution would have only insignificant impacts.

With respect to climate, *Vecinos* held that FERC’s conclusion that it could not evaluate the significance of greenhouse gas emissions was arbitrary, when FERC had not addressed whether 40 C.F.R. § 1502.21(c) required to use methods “generally accepted in the scientific community,” potentially including the “social cost of carbon” protocol, to evaluate these impacts. *Id.* *Vecinos* remanded to FERC with instructions to explain

whether the social cost of carbon was such a method, and to otherwise address this regulation.

Here, FERC's order on remand also failed to heed *Vecinos's* instructions. FERC contends that the social cost of carbon is not suited to review of individual projects like this one. FERC failed to provide any reasons to support its assertion that the tool is unsuited to project-level review despite being generally accepted for rulemaking. But more fundamentally, FERC again failed to apply 40 C.F.R. § 1502.21(c). FERC did not address whether the scientific community generally accepts the use of social cost of carbon in project-level review. But the tool plainly is generally accepted for this purpose, is recommended for such use by the Council on Environmental Quality, and has been used for project-level review by numerous other agencies. FERC also failed to respond to *Vecinos's* argument that the 7.2 million tons per year of greenhouse gas emissions at issue here are facially significant, whether viewed directly or through the lens of the social cost of carbon.

FERC also acted arbitrarily by refusing to provide any NEPA process on remand. Although *Vecinos* held that FERC had violated NEPA, FERC did not issue a supplemental EIS or other NEPA document

in its attempt to cure these violations. FERC did solicit public comments on some of the developers' own technical submissions, but this fell far short of the public participation NEPA requires. FERC's failure to use NEPA procedures is itself reason to vacate and remand.

And finally, FERC violated NEPA and the Natural Gas Act by renewing its authorization of the Rio Grande LNG terminal without considering Rio Grande's proposal to add carbon capture and sequestration to the terminal. After *Vecinos*, Rio Grande promptly applied to add this technology, asserting that the reductions in emissions it provided would allow FERC to respond to *Vecinos* by "expeditiously" concluding that the project's greenhouse gas emissions were insignificant. FERC turned a willful blind eye to this proposal in the reauthorization proceeding. This was arbitrary, because the proposal is both a connected action and an alternative that FERC was required to consider.

Because FERC already had an opportunity to cure the deficiencies in its approval of the Project and failed to do so, the appropriate remedy is vacatur.

II. LEGAL FRAMEWORK

A. Natural Gas Act

FERC issued the orders under review pursuant to Natural Gas Act sections 3 and 7, 15 U.S.C. §§ 717b, 717f.

Under section 3, FERC exercises delegated authority to “approve or deny an application for the siting, construction, expansion, or operation” of liquefied natural gas export infrastructure. 15 U.S.C. § 717b(e)(1); *EarthReports v. FERC*, 828 F.3d 949, 952-53 (D.C. Cir. 2016). FERC will approve an export project unless it would be inconsistent with the public interest. *EarthReports*, 828 F.3d at 953. The “public interest” standard is broad and includes consideration of “environmental” and “conservation” impacts. *Sierra Club v. U.S. Dep’t of Energy*, 867 F.3d 189, 202-03 (D.C. Cir. 2017).

Under section 7, FERC regulates pipelines that would transport gas in interstate commerce. 15 U.S.C. § 717f(c).¹ FERC may only authorize such a pipeline if it determines that it is “required by the present or

¹ Pipelines that do not cross state lines, but that (like Rio Bravo) will transport gas that does, are subject to this provision. *Associated Gas Distributors v. FERC*, 899 F.2d 1250, 1255 (D.C. Cir. 1990).

future public convenience and necessity.” 15 U.S.C. § 717f(e). This standard requires consideration of environmental concerns, including greenhouse gas emissions. *Sierra Club v. FERC*, 867 F.3d 1357, 1373 (D.C. Cir. 2017) (“*Sabal Trail*”). FERC “will issue a certificate ... only if a project’s public benefits ... outweigh its adverse effects.” *City of Oberlin, Ohio v. FERC*, 937 F.3d 599, 602 (D.C. Cir. 2019).

B. National Environmental Policy Act

NEPA “declares a broad national commitment to protecting and promoting environmental quality.” *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 348 (1989). To serve that goal, NEPA mandates that federal agencies prepare an environmental impact statement (EIS) before taking any major federal action that significantly affects the environment. 42 U.S.C. § 4332(2)(C) (2022).² An EIS must take a hard look at the effects of the action, including alternatives to the proposed action, 40 C.F.R. § 1502.14, the “significance” of the impacts, *id.* § 1502.16(a)(1), and opportunities to mitigate these effects. *Id.* §

² Congress amended NEPA, including 42 U.S.C. § 4332, after FERC issued the Remand Order. *See* Pub. L. No. 118-5, § 321, 137 Stat. 10, 38-45 (June 3, 2023). Those amendments are immaterial here.

1502.14(e). The EIS must also take a broad perspective, considering direct, indirect, and cumulative effects, *id.* § 1508.1(g), of both the individual action and of any “connected actions,” that “are closely related.” *Id.* § 1501.9(e)(1). FERC has adopted the Council on Environmental Quality’s NEPA regulations. 18 C.F.R. § 380.1.

As part of its NEPA review, FERC also considers “environmental justice,” *i.e.*, whether projects “will have a disproportionately high and adverse impact on low-income and predominantly minority communities.” *Vecinos*, 6 F.4th at 1326 (cleaned up).

Finally, NEPA obligations do not end with publication of the EIS. So long as an agency has “a meaningful opportunity to weigh the benefits of the project versus the detrimental effects on the environment,” *Marsh v. Oregon Nat. Res. Council*, 490 U.S. 360, 372 (1989), NEPA imposes a continuing obligation to “supplement” the EIS to address “significant new circumstances or information.” 40 C.F.R. § 1502.9(d)(1). Such supplementation must follow the same procedures as preparation of the EIS itself. *Id.* § 1502.9(d)(3).

III. FACTUAL BACKGROUND

The proposed Rio Grande LNG export terminal would be sited on vacant land in Cameron County, Texas, in between the Brownsville Shipping Channel and the Bahia Grande unit of the Laguna Atascosa Wildlife Refuge, 2.2 miles east of the City of Port Isabel. EIS, 1-2 [JA___] (map). The proposed Rio Bravo pipelines would travel from the terminal site to the Agua Dulce gas hub, 135 miles to the northwest. Authorization Order, PP2, 9 [JA___].

The communities closest to the terminal are predominantly environmental justice communities, where the population is largely minority and/or low-income. Remand Order PP104-05 [JA___-___] (defining the term). Cameron County is 88.5 Hispanic/Latino and 29.6% of its residents live below the poverty line. EIS 4-235 – 4-238 [JA___-___]. The populations near the pipeline have similar demographics. *Id.*

The area is a major destination for tourism and outdoor recreation. EIS, 4-214 [JA___]. The EPA explained that this “site is part of a unique coastal ecosystem, with relatively low environmental impacts to date.” R.653, 1 [JA___]. The Laguna Atascosa refuge is a key resource, and “the US government, non-profit partners, and local governments have spent a

great deal of time and resources on restoring the Bahia Grande wetlands.” EIS, Appx. R-6 [JA___] (quoting the Fish and Wildlife Service). The area and its wildlife refuges are also home to one of the only remaining U.S. populations of endangered ocelots. *Id.* at ES-8 [JA___].

A. Initial FERC Review and Approval of the Rio Grande Terminal and Rio Bravo Pipelines

The Rio Grande LNG terminal would occupy 750 acres adjacent to the Laguna Atascosa refuge. EIS, ES-2 [JA___]. It would have the capacity to export 27 million tons per annum of LNG. *Id.*; Remand Order, P5 [JA___-___]. It would receive gas from two new, parallel pipelines, together named the Rio Bravo project. EIS, ES-2 [JA___].

FERC reviewed the terminal and pipeline proposals together in a single EIS, finalized in April 2019, [JA___]. That EIS concluded that these projects, together with the neighboring Texas LNG and Annova LNG (now abandoned), would have significant adverse impacts on protected species, noise, surface water quality, and scenic resources. Authorization Order, P56 [JA___]. The EIS stated that operation of the pipeline and terminal would emit 9.07 million tons of carbon dioxide

equivalent annually. R.1314, P108 [JA____]. However, FERC concluded that it was unable to evaluate the impacts of these emissions, including whether this impact was “significant.” EIS, 4-482 [JA____].

FERC concluded that other impacts of the project would be insignificant. Although Rio Grande and Rio Bravo would destroy hundreds of acres of wetlands, the EIS assumed that mitigation required by the Corps of Engineers would render net wetland impacts to be insignificant. EIS, 5-6 [JA____].

The EIS acknowledged that the projects—principally the terminal—would emit thousands of tons per year of air pollution, but concluded that because these emissions would not cause a violation of any National Ambient Air Quality Standard (“NAAQS”), these emissions were insignificant. EIS, 4-252, 4-262 to -263 [JA____, ____-____].

In response to a rehearing request filed by City of Port Isabel, Sierra Club, and Vecinos para el Bienestar de la Comunidad Costera, FERC acknowledged that the EIS’s analysis of one air pollutant—ozone—was incomplete. R.1349, P55 [JA____-____]. The EIS had not considered the cumulative effect of emissions from the export projects’ stationary sources together with LNG-related shipping traffic. *Id.* FERC

concluded that when shipping emissions were accounted for, this nearly doubled the anticipated emissions of ozone-forming pollution. *Id.* And FERC concluded that these emissions could cumulatively cause ambient ozone levels to reach 76.5 parts per billion, exceeding the 70 part per billion NAAQS. *Id.* FERC therefore concluded that “the cumulative impact on regional air quality from ozone could be significant.” *Id.*

The EIS also concluded that the projects would not have a “disproportionate adverse effects” impact on environmental justice communities. EIS, 4-237 to -238 [JA____-____]. For the terminal, FERC rested this conclusion on analysis of census blocks within a two-mile radius. *Id.* 4-234 to -237. The EIS concluded that all of the communities in this radius were environmental justice communities, and that environmental justice communities were not disproportionately affected. *Id.*

After issuing the April 2019 EIS, FERC approved the Rio Grande terminal and Rio Bravo pipelines in a single order issued November 22, 2019. Authorization Order [JA____]. On that same day, FERC also approved the neighboring proposal for Texas LNG. *Texas LNG Brownsville, LLC*, 169 FERC ¶ 61,130 (Nov. 22, 2019).

B. Events between FERC's Approval and *Vecinos*

Petitioners challenged FERC's authorization, and the Army Corps of Engineers' issuance of Clean Water Act permits for the projects. Thereafter, the developers proposed significant modifications to the pipeline and to the terminal.

For the pipeline, *Vecinos et al.* argued that the approved design violated the Clean Water Act by failing to justify locating a compressor station in a wetland. R.1329, 15-18 [JA___-___]. After Sierra Club and challenged the projects' Clean Water Act permit, R.1381 [JA___], Rio Bravo proposed eliminating the compressor station at issue. R.1392, Application, 1-2 [JA___-___]. This led the Corps to withdraw the permit for reconsideration, rendering that petition unripe. *Shrimpers & Fishermen of the RGV v. United States Army Corps of Engineers*, 849 Fed.Appx. 459, 461 (5th Cir. Mar. 9, 2021); Order Dismissing Case, 2021 WL 9870444 (5th Cir. July 1, 2021). In a subsequent case not at issue here, the Fifth Circuit denied the challenge to the Corps' revised permit. *Shrimpers & Fishermen of the RGV v. United States Army Corps of Engineers*, 56 F.4th 992, 994 (5th Cir. 2023).

Vecinos also challenged the terminal design, explaining that it was an overbuild, with a capacity to produce at least 20% more LNG than FERC had authorized. R.1329, 8-15 [JA____-____]. Two months after Vecinos filed the petition for review in *Vecinos* (on February 20, 2020), Rio Grande requested a design change that would eliminate this excess infrastructure. R.1382 [JA____];³ R.1453 [JA____] (letter order granting this request). Vecinos subsequently challenged FERC's approval of this design change, R.2368 [JA____-____], but voluntarily dismissed that lawsuit after *Vecinos* was decided. Case 20-1419, Doc. 1911943, Order granting dismissal (D.C. Cir. Aug. 27, 2021).

C. *Vecinos*

In *Vecinos*, this Court held that FERC violated both NEPA and the Natural Gas Act in its analyses of greenhouse gas emission and environmental justice impacts of the Project and the Texas LNG terminal. 6 F.4th at 1329-31. The Court concurrently issued an unpublished judgment rejecting other NEPA claims.

³ The details of this request are redacted, and were not otherwise public when the *Vecinos* opening brief was filed, on June 10, 2020.

On greenhouse gases, FERC had claimed that it was unable to determine the significance of emissions because FERC had no methodology for doing so. *Id.* at 1328. *Vecinos* held that FERC failed to respond to the argument that 40 C.F.R. § 1502.21(c) required FERC to use the social cost of carbon protocol. *Id.* This regulation provides that where an agency does not know how to evaluate foreseeable significant impacts, the agency must evaluate those impacts using “theoretical approaches or research methods generally accepted in the scientific community.” *Id.* (quoting the regulation). *Vecinos* remanded to FERC with instructions to explain whether the social cost of carbon was such a method, and to otherwise address this regulation.

As to environmental justice, *Vecinos* held that FERC had failed to explain its decision to limit its environmental justice analysis to communities within two miles of the terminal, where FERC had determined that the terminal’s environmental impacts would extend much farther. 6 F.4th at 1330. *Vecinos* remanded with instructions to either explain this disparity or to expand the analysis, and then reconsider FERC’s conclusion that the projects “would not have disproportionate adverse effects on” environmental justice communities.

Id. at 1331. *Vecinos* further held that these NEPA violations also prevented FERC from concluding that the projects were in the public interest, for purposes of the Natural Gas Act. *Id.*

In the unpublished judgment, the Court rejected arguments related to ozone and to terminal and pipeline capacity, *Vecinos para el Bienestar de la Comunidad Costera v. FERC*, No. 20-1045, 2021 WL 3716769 (D.C. Cir. Aug. 3, 2021).

D. Post-Vecinos Events

After *Vecinos*, FERC began issuing environmental information requests to both Rio Grande and Rio Bravo. FERC sent a dozen in all, with the first sent on February 3, 2022, R.2822 [JA___] and its last on February 15, 2023. R.2976 [JA___]. Many of these requests sought completion or revision of the developers' previous responses. *E.g.*, R.2913, 1 [JA___], R.2962 [JA___-___]. On September 30, 2022, FERC requested comment on three of the developers' responses to FERC environmental information requests of the developers' submissions. R.2922 [JA___-___]. *Vecinos*, and many others, submitted timely responses. *See* R.2926 [JA___]. *Vecinos* submitted an additional comment, not in response to any FERC solicitation, on December 2, 2023. R.2956 [JA___].

In a parallel proceeding, on November 17, 2021, three months after *Vecinos* was decided, Rio Grande submitted an application to FERC proposing to add carbon capture and sequestration system to the Terminal. R.2926, CCS Application, 1-2 [JA____]. Rio Grande's stated that with the reductions in greenhouse gas emissions that would be achieved through carbon capture and sequestration, FERC should be able to "to expeditiously find that the Rio Grande LNG Terminal's contribution to global climate change with CCS systems operating would not be significant." *Id.* at 2. In response to the carbon capture application, on December 19, 2021, *Vecinos* submitted a protest arguing FERC could not rely on the emission reductions that would be provided by carbon capture in re-evaluating the terminal unless Rio Grande was required to operate this equipment.⁴ *Vecinos* repeated this argument in comments submitted in the docket here. R.2926, 19-20 [JA____-____]. *Vecinos* also argued that FERC was required to consider the carbon capture application in conjunction with reconsideration of the terminal itself.

⁴ https://elibrary.ferc.gov/eLibrary/filelist?accession_Number=20211220-5237.

Initially, Rio Grande's filings in the primary docket reflected Rio Grande's carbon capture and sequestration proposal. That is, when submitting updated information about air pollution emissions, Rio Grande assumed installation and operation of the carbon capture and sequestration equipment. R.2825, 20 [JA____]. However, at FERC's request, Rio Grande eventually submitted updated data on emissions that would result without carbon capture. R.2915 [JA____].

Meanwhile, in the docket for Rio Grande's carbon capture proposal, FERC ultimately concluded that Rio Grande failed to "provid[e] complete and timely responses" to FERC's environmental information requests. Accession 20230414-3050, at 1.⁵ FERC suspended environmental review of the proposal on April 14, 2023, *id.*, but the application remains pending.

On April 21, 2023, FERC issued the Remand Order [JA____]. Vecinos filed a timely request for rehearing. Rehearing Request, R.3021 [JA____]. FERC allowed that request to be denied by operation of law, and

⁵ https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20230414-3050

issued an order addressing the merits of the rehearing request after this petition for review was filed. Rehearing Order, R.3080 [JA____].

SUMMARY OF ARGUMENT

After *Vecinos* held that FERC violated NEPA, and FERC responded by, *inter alia*, soliciting new analysis of air pollution, FERC was required to present that analysis using the NEPA process. FERC's process here fell short, and the violation of NEPA procedures prejudiced FERC's decisionmaking.

FERC failed to address whether the projects' air pollution would have a disproportional adverse impact on environmental justice communities. FERC's conclusion that air impacts would be insignificant does not answer that question. And that conclusion is itself unsupported.

On greenhouse gas emissions, FERC asserted that the social cost of carbon was not suitable for project-level review, but FERC did not dispute that the scientific community generally accepts using the tool for this purpose. FERC can evaluate the significance of social costs without a defined threshold for significance. Alternatively, FERC failed to explain

why the 7.2 million tons of annual greenhouse gas emissions here were not facially significant.

FERC could not reauthorize the terminal without considering Rio Grande's parallel application for carbon capture and sequestration. That proposal is a connected action, and also constitutes a reasonable alternative design that FERC needed to consider before reauthorizing the terminal.

STANDING

The City of Port Isabel will be harmed by, *inter alia*, the project's traffic and disruption of the fishing and tourism industries. Hockema Decl. ¶¶2-16; *City of Bos. Delegation v. FERC*, 897 F.3d 241, 250 (D.C. Cir. 2018).

Remaining petitioners are nonprofit organizations whose members and leaders live, work, and recreate in areas that will be adversely affected by the construction and operation of the projects. Mancias Decl. ¶¶2-12; Hinojosa Decl. ¶¶2-13; Guevara Decl. ¶¶2-12; Nunez Decl. ¶¶2-11; *see also Students for Fair Admissions, Inc. v. President and Fellows of Harvard College*, 600 U.S. 181, 200-01 (2023).

This Court can redress the harm to these members by remanding for reconsideration by FERC. *WildEarth Guardians v. Jewell*, 738 F.3d 298, 306 (D.C. Cir. 2013).

ARGUMENT

I. STANDARD OF REVIEW

The Administrative Procedure Act provides the standard of review here. *Vecinos*, 6 F.4th at 1327, 1331. Under this standard, Courts “shall ... hold unlawful and set aside” any agency action that is “arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with law.” 5 U.S.C. § 706(2)(a). FERC must have “examine[d] the relevant data” and made “a rational connection between the facts found and the choice made.” *Motor Vehicle Mfrs. Ass’n of U.S. v. State Farm Mut. Auto. Ins. Co.*, 463 U.S. 29, 30, 43 (1983) (cleaned up). Where FERC “rests a decision, at least in part, on an infirm ground, [the Court] will find the decision arbitrary and capricious.” *Vecinos*, 6 F.4th at 1331.

II. FERC COULD NOT CURE THE NEPA VIOLATIONS IDENTIFIED IN *VECINOS* WITHOUT NEPA PROCESS

Vecinos held that FERC’s analyses of both environmental justice and greenhouse gases violated NEPA. 6 F.4th at 1330-31. Here, FERC

again violated NEPA by reauthorizing the terminal and pipeline without preparing a supplemental EIS or other additional NEPA analysis.

FERC's ad-hoc procedures fell far short of its NEPA obligations. And FERC's failure to follow NEPA's procedures cannot be dismissed as harmless error.

A. NEPA Required FERC to Prepare a Supplemental EIS

NEPA required additional process both to respond to *Vecinos* and to address new information, including FERC's conclusion that the Project would impact hundreds of additional environmental justice communities and, as discussed *infra* Part V, Rio Grande's proposal to modify the terminal design to add carbon capture and sequestration. FERC's arguments to the contrary are mistaken.

Agencies found to have violated NEPA normally respond on remand by preparing a new NEPA document. Typically, this is a supplemental EIS focused on the deficiency, rather than a full EIS, even though the information considered therein might not be "new" in the sense of being previously unavailable. 40 C.F.R. 1502.9(d)(2)(ii); *see Gov't of Manitoba v. Bernhardt*, 923 F.3d 173, 177 (D.C. Cir. 2019); *Nat. Res. Def. Council v. U.S. Nuclear Regul. Comm'n*, 823 F.3d 641, 644 (D.C. Cir. 2016). FERC

has done the same. *Florida Southeast Connection*, 162 FERC ¶ 61,233, PP11-14 (Mar. 14, 2018) (discussing supplemental EIS prepared on remand from *Sabal Trail*, 867 F.3d 1357).

Such a supplemental NEPA analysis is required because NEPA does not permit filling gaps in an EIS other than by using NEPA procedures. *Idaho Sporting Congress v. Alexander*, 222 F.3d 562, 564 (9th Cir. 2000). In *Idaho Sporting Congress*, a court had previously determined that a Forest Service EIS failed to adequately consider cumulative effects and potential mitigation measures. The Forest Service attempted to cure these deficiencies by issuing “supplemental information reports.” *Id.* at 566-67. The court explained that such non-NEPA reports could be used to determine whether a supplemental EIS was required, but could not substitute for a supplemental EIS, nor could they be used to “provide ... information and analysis” that was unlawfully omitted from the EIS. *Id.* at 567; accord *Pennaco Energy, Inc. v. U.S. Dept. of Interior*, 377 F.3d 1147, 1159 (10th Cir. 2004) (holding that gap in EIS’s analysis could not be filled by affidavit prepared after the NEPA process).

Independent of the obligation to use NEPA procedures to fix NEPA violations, a supplemental EIS is also required where there are “significant new circumstances or information relevant to environmental concerns” and “Federal action remains to occur.” 40 C.F.R. § 1502.9(d)(1). New information about the “nature” or the “extent” of impacts can trigger this obligation. *Mountain Valley Pipeline*, 68 F.4th at 651, *vacated as moot by* 2023 WL 5537562 (D.C. Cir. 2023). An agency can use non-NEPA documents to help decide whether new information warrants supplementation, but such documents cannot substitute for the supplemental NEPA process itself. *Idaho Sporting Congress*, 222 F.3d at 567. And because this obligation exists independent of whether there has been a remand, here, FERC must supplement to consider significant new information regardless of whether that information pertains to the specific questions remanded. New information requires a supplement so long as there is “remaining government action [that] would be environmentally significant” and the agency retains “a meaningful opportunity to weigh the benefits of the project versus the detrimental effects on the environment.” *Marsh*, 490 U.S. at 372. FERC plainly had such opportunity here: “once FERC reacquired jurisdiction” on remand,

“it had the discretion to reconsider the whole of its original decision.”

Southeastern Michigan Gas Co. v. FERC, 133 F.3d 34, 38 (D.C. Cir. 1998).

Here, these two paths for an obligation to supplement intersect, because FERC responded to *Vecinos* by directing the applicants to prepare an entirely new analysis of air pollution impacts, *see* R.2962, 1-2 [JA____-____], which revealed a much broader geographical extent of impacts on environmental justice communities. Remand Order, PP102, 110, 148-149 [JA____-____, ____-____, ____-____].

Nonetheless, FERC refused to prepare a supplemental EIS, or to use any other NEPA procedures to present and analyze this information. FERC mistakenly argues that even though it relied on new information, FERC’s conclusion that “there would be no significant impacts on air quality” means that there were no “significant new circumstances or information” within the meaning of 40 C.F.R. § 1502.9(d), and that FERC did not need to prepare a supplemental EIS. Rehearing Order, P42 and n.110 [JA____-____]. The record does not support FERC’s conclusion that air impacts would be insignificant, as explained *infra* Part III.B. But even if, counterfactually, this insignificance finding was supported,

FERC's refusal to prepare a supplemental EIS would still have been arbitrary, for three reasons.

First, because *Vecinos* already found that FERC's 2019 EIS was inadequate, a supplemental EIS is required regardless of whether there is new information. *Idaho Sporting Congress*, 222 F.3d at 567. Here, FERC isn't deciding whether new information calls an otherwise-valid EIS into question. FERC is attempting to remedy conceded deficiencies with a new environmental justice analysis. But new analysis cannot cure a NEPA violation unless it is developed using NEPA's procedures. *Id.* Where those procedures are not used, "courts should harbor substantial doubt" about whether the analysis is correct. *Standing Rock Sioux Tribe v. United States Army Corps of Engineers*, 985 F.3d 1032, 1052-53 (D.C. Cir. 2021), *cert. denied sub nom. Dakota Access, LLC v. Standing Rock Sioux Tribe*, 142 S. Ct. 1187 (2022).

Second, new "circumstances or information" can be "significant" for purposes of § 1502.9(d)(1)(ii) even if they do demonstrate a new significant "impact." Supplementation is required where new information demonstrates that a project "will affect the quality of the human environment ... to a significant extent not already considered." *Friends of*

Cap. Crescent Trail v. Fed. Transit Admin., 877 F.3d 1051, 1060 (D.C. Cir. 2017) (cleaned up). Here, new information demonstrated that the projects would impact environmental justice communities in hundreds of census block groups, as opposed to the four identified in the EIS. Compare Remand Order, P119 [JA___], with EIS, 4-235 [JA___]. This presents “a seriously different picture of the environmental landscape.” *Friends of Capital Crescent Trail*, 877 F.3d at 1060. Once this threshold was crossed, FERC was required to use the NEPA process to evaluate, *inter alia*, whether the impacts are significant.

Third, FERC’s conclusion that air impacts would be insignificant does not answer the question before FERC, and thus fails to demonstrate that the landscape is not “seriously different” in pertinent regards. *Id.* FERC had to evaluate whether the Project’s impacts on environmental justice communities more than two miles from the terminal site would be “disproportionate [and] adverse.” *Vecinos*, 6 F.4th at 1331. As discussed *infra* Part III.A, impacts that are “insignificant” in general can still have a disproportionate and adverse impact on environmental justice communities. EPA, *Promising Practices for EJ Methodologies in NEPA Reviews*, at 33, 38-39 (Mar. 2016) (“Promising Practices”) [JA___, ___-

____]. FERC has not provided any argument to the contrary. Thus, even if FERC had demonstrated that the impacts of air pollution on newly-identified communities would be insignificant, this would not demonstrate that there was no need to analyze the newly presented data, modeling, *etc.*, in a supplemental EIS.

B. The Process FERC Used Here Fell Short of NEPA's Requirements

Rather than providing a draft supplemental EIS for comment, FERC solicited comments on three of the twelve developer responses to FERC's information requests. R.2922, 2 [JA____] (citing R.2902 [JA____], R.2915 [JA____], and R.2920 [JA____]); Rehearing Order, PP7-8 [JA____-____]. This provided far less than the robust public participation opportunity that NEPA requires. The procedural requirements for a supplemental EIS are the same as for the EIS itself. 40 C.F.R. § 1502.9(d)(3).⁶ *Inter alia*, agencies must circulate a draft EIS that is as complete as possible, § 1502.9(b); provide adequate notice, 40 C.F.R. § 1506.6; provide the public at least 45 days to comment, § 1506.11(d); and FERC must provide commenters on a draft EIS a right to intervene in

⁶ The exception is that “scoping” is not required for a supplement.

the FERC proceeding, 18 C.F.R. § 380.10(a)(1)(i). FERC's ad-hoc, non-NEPA comment solicitation fell short on each count.

First, soliciting comments on developer submissions is not equivalent to soliciting comments on a draft supplemental EIS prepared by FERC. The public cannot meaningfully comment without something adequate to comment on. *See Florida Power & Light Co. v. United States*, 846 F.2d 765, 771 (D.C. Cir. 1988) (holding, in the Administrative Procedure Act rulemaking context, that agencies must “must provide sufficient factual detail and rationale ... to permit interested parties to comment meaningfully”). For this reason, NEPA regulations provide that a draft supplemental EIS circulated for public comment must, “[t]o the fullest extent practicable ... meet the requirements established for final statements.” 40 C.F.R. § 1502.9(b). This includes the requirement to “present evidence and discussion relevant to [the agency’s] environmental decisionmaking in one comprehensive document.” *Friends of the River v. FERC*, 720 F.2d 93, 105-06 (D.C. Cir. 1983). That comprehensive document must be “concise, clear, and to the point,” 40 C.F.R. § 1502.1, and written “in plain language” so the public can “readily understand” its contents. 40 C.F.R. § 1502.8. And it must

present the *agency's* conclusions: NEPA does not permit EISs to uncritically accept applicants' representations. *Utahns for Better Transp. v. U.S. Dep't of Transp.*, 305 F.3d 1152, 1165 (10th Cir. 2002) (holding that Corps violated NEPA by failing to verify cost estimates). Here, the developers' filings have none of these qualities. The developers' materials provide focused answers to specific questions, written for an audience of FERC technical staff rather than the general public, without providing 'comprehensive' context or FERC's interpretation of the information.

Second, FERC did not provide notice that there would be no further comment opportunities. When an agency solicits comments on a draft EIS or draft supplemental EIS, members of the public and other agencies know that issues not raised in comments on a draft EIS may be waived. *Dep't of Transp. v. Pub. Citizen*, 541 U.S. 752, 764 (2004). Here, when FERC solicited comments on the developer's responses in September 2022, the public had no reason to doubt that another comment period, regarding an actual NEPA document that reflected FERC's analysis of this new information, would be forthcoming. FERC's solicitation did not provide notice that comments were required, or that comments should go beyond the issues specific to the individual developer filings singled out

in FERC's notice, and address all other issues pertaining to FERC's ultimate decisionmaking (such as impacts to individual census tracts, and what this meant for FERC's environmental justice analysis).

Other federal agencies were also apparently caught unaware. The EPA has commented on *every* draft EIS regarding new gas infrastructure that FERC has released in the last three years.⁷ In most of these comments, EPA addressed environmental justice issues.⁸ It is therefore reasonable to assume that if FERC had published a draft supplemental EIS, EPA would have commented here as well. But EPA did not respond to FERC's non-NEPA comment solicitation.

Third, FERC only provided 21 days for public comment, R.2922, 2 [JA____], whereas NEPA regulations provide a 45-day minimum. 40 C.F.R. § 1506.11(d). Thus, even if FERC had provided Vecinos with adequate material to comment on, and even if FERC had provided notice

⁷ Final EISs for these projects, which include FERC's responses to EPA's comments, are available at <https://www.ferc.gov/industries-data/natural-gas/environmental-overview/environmental-documents-2023>.

⁸ See, e.g., FERC Dkt. CP19-502, Accession No. 20220523-5182 (May 23, 2022) and FERC Dkt. CP22-21, Accession No. 20230314-5012 (Mar. 14, 2023).

about the necessity and necessary scope of comments, Vecinos still would have had less than half the time the regulations specify as the minimum needed to enable effective comment preparation.

Fourth, if FERC had complied with NEPA and circulated a draft supplemental EIS for comment, this would have given members of the public who had not already intervened in the authorization proceedings (including petitioner Carrizo Comecrudo Tribe of Texas, which is only a party to the pipeline amendment proceeding) a right to intervene. 18 C.F.R. § 380.10(a)(1)(i).

C. Refusal to Use NEPA Procedures Is Itself Prejudicial

FERC's failure to undertake any NEPA process after *Vecinos* remanded for NEPA violations is itself reason to remand. The lack of an EIS further substantially increases doubt as to the agency's decisionmaking on the substance: "Where an EIS was required but not prepared, courts should harbor substantial doubt that the agency chose correctly regarding the substantive action at issue." *Standing Rock Sioux Tribe*, 985 F.3d at 1052-53 (vacating and remanding where the Corps of Engineers' finding of no significant impact and refusal to prepare an EIS were arbitrary). Thus, even if the Court is not persuaded by Vecinos'

challenges to the content of FERC's analysis, the procedural failure is itself prejudicial error.

FERC's procedural failings here undermined Vecinos' and others' ability to effectively comment. If FERC had circulated a draft supplemental EIS for comment before issuing the Remand Order, Vecinos would have been able to more fully develop the arguments presented *infra*. In addition, Vecinos would have investigated additional theories. For example, although Rio Grande is a larger facility than Texas LNG and will emit 10 times more nitrogen dioxide, FERC counterintuitively estimated that the impact of Texas LNG's pollution will reach farther—with impacts above the “significant impact level” 24 kilometers away, versus only 12.8 for Rio Grande. Rehearing Request, 22-23 [JA____]. In analyzing Rio Grande, FERC also estimates a lower maximum impact on nitrogen dioxide than what FERC estimated for Texas LNG, despite the fact that FERC had instructed the developers to respond to Vecinos' earlier comments about discrepancies in their modeling. *Compare* Remand Order, P149 [JA____] (106.62 $\mu\text{g}/\text{m}^3$) *with Texas LNG Brownsville*, 183 FERC ¶ 61,047, App'x B Table 2 (124.55 $\mu\text{g}/\text{m}^3$). However, Vecinos did not identify this issue until after the

deadline for requesting rehearing had expired. If FERC had complied with NEPA procedures, Vecinos would have been better able to comment on FERC's counterintuitive findings. Those comments could have spurred FERC to seek out additional information and/or alter its decision.

In contrast, where this Court has held that a violation of NEPA procedures did not itself require remand, the Court found that the violation was truly harmless on the facts at issue. In *Friends of the River*, FERC's EIS had failed to consider an alternative, which FERC then discussed in its rehearing order. 720 F.2d at 106-07. The Court held the rehearing order demonstrated to the public that FERC had considered the issue, and thereby fulfilled NEPA's purpose. *Id.* at 108.

Informing the public is one purpose of an EIS, but as the Supreme Court explained six years after *Friends of the River*, a "perhaps more significant[]" purpose is to "provide a springboard for public comment," so that the public may "play a role in ... the decisionmaking process." *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 349 (1989). *Friends of the River* did not consider an argument that NEPA process could allow the public to comment on FERC's belated analysis, and thereby influence FERC's decision. In the absence of such an argument,

the Court held that remand would serve no purpose other than “to redo, under the proper heading, what has already been done.” 720 F.2d at 108.

In this Circuit’s two cases following this holding from *Friends of the River*, the Court similarly found that the violation of NEPA process was truly harmless, without confronting arguments that process could change the agency’s decision. In *Oglala Sioux Tribe v. Nuclear Regulatory Commission*, 45 F.4th 291, 301 (D.C. Cir. 2022) (“*Oglala Sioux II*”), the EIS omitted required statements about the unavailability of cultural resource information. The agency provided these statements in a later public document. *Id.* The challenger did not “dispute the reasonableness or accuracy of” those later statements, “but maintain[ed] only that they had to be within the EIS.” *Id.* The Court held that remand merely to “repeat ... unchallenged findings” would be pointless. *Id.* Similarly, in *Natural Resources Defense Council v. Nuclear Regulatory Commission*, 879 F.3d 1202, 1210 (D.C. Cir. 2018), although an EIS was supplemented with additional information without going through NEPA’s procedures, the challengers had “not pointed to any harmful consequence of the supplementation.” *Id.* Thus, none of these cases addressed a claim that

violating NEPA procedures had undermined public comment, and that comments could have altered the agency's analysis and decision.

These three cases are further distinguishable because in each, the agency had published an EIS and attempted to comply with NEPA, even though the EISs fell short. Here, in contrast, *after* this Court held *Vecinos* held that FERC had violated NEPA, FERC arbitrarily refused to conduct any NEPA process whatsoever.

In analogous rulemaking cases, this Court has held “an utter failure to comply with notice and comment cannot be considered harmless if there is any uncertainty at all as to the effect of that failure.” *Am. Pub. Gas Ass’n v. Dep’t of Energy*, 72 F.4th 1324, 1338 (D.C. Cir. 2023) (quoting *Sugar Cane Growers Co-op. of Fla. v. Veneman*, 289 F.3d 89, 96 (D.C. Cir. 2002)). In *American Public Gas*, petitioners explained how they might have commented, and this Court readily found “enough uncertainty” as to how the agency would have responded to comments to demonstrate prejudice from the agency’s “utter” procedural failure. *Id.* In *Sugar Cane Growers*, challengers similarly identified considerations they would have raised, although the Court held that “they need not have.” 289 F.3d at 97. This Court has applied these cases in the NEPA context.

See *Standing Rock Sioux Tribe*, 985 F.3d at 1052 (citing *Daimler Trucks North America LLC v. EPA*, 737 F.3d 95, 103 (D.C. Cir. 2013)). More broadly, where an agency's refusal to use NEPA process is deliberate, the Court considers this fact in its remedy analysis. *Oglala Sioux Tribe v. Nuclear Regul. Comm'n*, 896 F.3d 520, 537 (D.C. Cir. 2018) (“*Oglala Sioux I*”) (discussing agency's “across-the-board” failure). Because NEPA is a “purely procedural statute,” treating significant violations of NEPA procedures as harmless would “vitiate’ the statute.” *Standing Rock Sioux Tribe*, 985 F.3d at 1052 (quoting *Oglala Sioux I*, 896 F.3d at 536).

FERC's failure to provide a draft supplemental EIS for comment denied Vecinos the foundation and time needed to prepare thorough comments, which could have influenced FERC's decision. In the alternative, insofar as this Court finds that Vecinos failed to fully present to FERC the substantive concerns explained in the following sections of this brief, FERC's procedural violations provide a “reasonable ground for [Vecinos'] failure to do so.” 15 U.S.C. § 717r(b).

III. FERC'S ANALYSIS OF ENVIRONMENTAL JUSTICE AND AIR POLLUTION WAS ARBITRARY

Vecinos held that FERC's analysis of environmental justice was arbitrary, because FERC had failed to explain why it based that analysis on the demographics of communities within two miles of the terminal, while simultaneously concluding that the projects' impacts, particularly on air quality, would be felt far beyond that radius. 6 F.4th at 1330-31. *Vecinos* instructed FERC to address this disparity and to revisit its conclusion that the projects "would not have disproportionate adverse effects on minority and low-income residents." *Id.* at 1331.

On remand, FERC directed the applicants to perform an entirely new analysis of air pollution impacts, which FERC used to perform a new analysis of environmental justice. Both are arbitrary. On environmental justice, FERC did not even purport to state whether air emissions would have a disproportionate adverse effect on environmental justice communities. And FERC repeated its prior error of conducting an analysis untethered to FERC's estimates of the actual geographic scope of project impacts. As to air pollution generally, FERC failed to support its conclusion that the impacts of air pollution would be insignificant.

A. FERC Failed to Address Whether Air Pollution Would Have a Disproportionate and Adverse Effect on Environmental Justice Communities

In the Remand Order’s discussion of the environmental justice impacts of air pollution, FERC states that “air quality impacts on environmental justice communities ... would be less than significant.” Remand Order P143 [JA___], *accord id.* P151 [JA___-___]. But as FERC recognizes elsewhere, whether impacts are “significant” and whether there are “disproportionate adverse impacts to environmental justice communities” are two separate questions. Indeed, in discussing the amendments to the pipeline project, FERC concluded that the pipeline impacts “would be disproportionately high and adverse, as impacts would be predominantly borne by environmental justice communities, but that impacts from these facilities would be less than significant.” *Id.* P76 [JA___]. More broadly, FERC claims that its analysis comports with EPA’s *Promising Practices* guidance. *Id.* P107 [JA___]. This guidance states that “[a] finding of no significant impacts to the general population is insufficient (on its own) to base a determination that there are no disproportionately high and adverse impacts to” environmental justice communities. *Promising Practices* at 38 [JA___]; *accord* Remand Order

P107 n.108 [JA___] (quoting the guidance). Having recognized this principle in general, FERC offers no explanation for its failure to apply this principle to analysis of the projects' air impacts.

FERC's general acknowledgement that "certain" impacts to environmental justice communities would be disproportionately adverse, Remand Order P206 [JA___], does not relieve FERC of the obligation to address whether air pollution is among those impacts. FERC is not prohibited from approving a project with disproportionate effects, *Sabal Trail*, 867 F.3d at 1368. Thus, "environmental justice is not merely a box to be checked." *Friends of Buckingham v. State Air Pollution Control Bd.*, 947 F.3d 68, 92 (4th Cir. 2020). Instead, evaluating environmental justice, like evaluating significance, serves to inform FERC's analysis of whether to deny the project, whether to require an alternative that reduces those effects, or whether to require other forms of mitigation. *Sabal Trail*, 867 F.3d at 1370; 18 C.F.R. § 380.7(d). Those analyses are necessarily effect-specific: if the problem is air pollution, mitigating visual impacts would be of little help. Thus, neither FERC's assertion that air impacts would be insignificant nor FERC's concession that environmental justice communities would suffer some disproportionately

high and adverse impacts satisfied FERC's obligation to take a hard look at the environmental justice impacts of air pollution.

A separate problem with FERC's environmental justice analysis is that FERC has once again based its analysis on a geographic area untethered from FERC's estimates of impacts. To analyze disproportionate impact, an agency will ordinarily "compare the demographics of the population predicted to be affected ... to the demographics of" some broader comparison population. *Communities Against Runway Expansion v. FAA*, 355 F.3d 678, 689 (D.C. Cir. 2004). Here, FERC based its analysis on all communities within 50 kilometers of the terminal. Remand Order P118 [JA____]. FERC states that this is the maximum distance at which EPA expects that air impacts *can* occur, for any project. *Id.* P118 n.268 [JA____]. But FERC does not contend that *these* projects will actually affect air quality in any communities 50 kilometers away. Instead, FERC claims that for air pollution, "the radius of impact (i.e., the distance at which a criteria pollutant falls below the defined significant impact level) is approximately 12.8 kilometers." *Id.* P118 [JA____]; see *Sierra Club v. EPA*, 705 F.3d 458, 461-62 (D.C. Cir. 2013) (describing significant impact levels).

FERC provided no discussion of the demographics of the communities that it expects would actually suffer an increase in air pollution above the respective significant impact level. *Vecinos* agree that the significant impact level may not be the appropriate way to decide whether a community is affected. But whatever effects threshold FERC uses, FERC's analysis must be tethered to actual effects, and FERC has not done that here. Over-inclusivity can obscure demographics and be just as arbitrary as under-inclusivity. In evaluating whether the projects would have disproportionate and adverse effects on environmental justice communities, FERC needed to explain who would actually be affected.

B. FERC's Analysis of Air Pollution Was Arbitrary

FERC's new analysis of air pollution is arbitrary, and does not support its conclusion that the projects will not have a significant impact on air quality.

The 2019 EIS analyzed a design significantly different than the projects the developers now intend to build. Accordingly, after *Vecinos*, FERC requested updated data on air emissions and impacts. Remand Order, PP82, 102 [JA____, ____-____]. Rio Grande and Rio Bravo responded with information reflecting omission of the sixth liquefaction train,

omission of the adjacent pipeline compressor station, other design changes, and updated data on cumulative sources and background pollution levels. *See, e.g.*, R.2902 [JA___]; R.2915 [JA___]. The developers initially provided data that also assumed the terminal would use carbon capture and sequestration, although FERC then requested, and ultimately relied upon, data that omitted this alternative.

For the reasons stated above, FERC's deficient process limited Vecinos' ability to comment on this new data and analysis. Nonetheless, it is clear that FERC's conclusions were arbitrary for at least two reasons. FERC did not justify its decision not to use background air quality data from the air monitor closest to the terminal and Port Isabel. And FERC did not provide data supporting its conclusions regarding ozone, or demonstrate that it had taken a hard look at cumulative ozone impacts.

1. FERC Arbitrarily Dismissed Higher, Nearer Background Data

FERC arbitrarily refused to use background air quality data from a nearby, official air monitor that indicated that the projects would cause air pollution exceeding the health-based NAAQS.

FERC's discussion of air pollution relies on modeling Rio Grande submitted on January 27, 2023. Remand Order, P137 [JA____-____]. That analysis used background data from 2019 through 2021 at an air monitor 28 kilometers west of the terminal. R.2967, SLR Letter, 22-23 [JA____-____]. Rio Grande concluded that the projects would nearly cause a violation of the NAAQS for fine particulate matter (PM_{2.5}). *Id.* at 23, 28 [JA____, ____] (predicting 1-hour PM_{2.5} of 11.87 µg/m³, with a NAAQS of 12, and 24-hour PM_{2.5} of 34.33, with a NAAQS of 35); *accord* Remand Order, P149 [JA____].

But FERC arbitrarily refused to consider data from the Texas Commission on Environmental Quality's Isla Blanca air monitor, near Port Isabel and only half the distance (roughly 13 kilometers) from the terminal. Rehearing Request, 17 [JA____]. This monitor showed much higher background levels of PM_{2.5}, that when combined with Rio Grande's contribution, will exceed the PM_{2.5} NAAQS. *Id.* at 17-18 [JA____-____].

The rehearing order provided two arbitrary reasons for dismissing this monitor. First, FERC argued that "the monitor did not have three years of data" that FERC preferred "at the time the analysis was completed." Rehearing Order, P27 [JA____-____]. FERC relied on an

analysis conducted in January 2023, Remand Order, P137 [JA____-____], thirty-nine months after the October 2019 start of this monitor's data. Rehearing Order, P27 [JA____-____].

Second, FERC claimed that the more distant Brownsville monitor's "proximity to environmental justice communities" justified using it instead of the nearer Isla Blanca monitor. *Id.* FERC's reasoning is unclear. Port Isabel and surrounding communities also contain significant environmental justice populations, and locations where environmental justice populations work and recreate. Regardless, FERC cannot dismiss real health harms to these nearby populations by arguing that there is a larger, less impacted population elsewhere.

2. FERC's Ozone Conclusions Are Unsupported

The Remand and Rehearing Order ignore cumulative ozone issues that FERC previously recognized as significant.

Before *Vecinos*, FERC acknowledged that the EIS's ozone analysis was incomplete, because it only considered stationary source emissions from the Rio Grande LNG terminal. *See* R.1349, P55 [JA____-____]. Although the EIS made some additional assumptions about the cumulative impact of stationary emission from Texas LNG (and the now-

abandoned Annova proposal), *id.* P53 [JA____-____], the EIS provided no analysis of marine vessels' contribution to ozone impacts, whether from Rio Grande or the terminals collectively. *Id.* P55 [JA____-____].

The 2020 Rehearing Order, however, recognized that cumulative marine vessel emissions were a large part of the problem. *Id.* FERC estimated that adding these additional emissions nearly doubled ambient ozone, with estimated levels reaching 76 parts per billion, exceeding the 70 parts per billion NAAQS limit. *Id.*

This time, FERC appears to have ignored these issues. The Remand Order does not provide the ozone modeling FERC relies upon, or demonstrate that FERC considered marine vessels in a cumulative ozone analysis this time around. The Remand Order merely states that "Rio Grande performed ozone modeling to update the results presented in the final EIS." Remand Order, P150 [JA____-____]. FERC cites a Rio Grande filing in support, *id.* P150 n.328 [JA____], but this filing summarizes the results of the developer's modeling, without providing the analysis itself. R.2944, 2 [JA____]. Crucially, Rio Grande's filing does not identify the inputs it used, making it impossible to determine the model's scope. The Rehearing Order does not offer any further information. Rehearing

Order, P29 [JA____-____]. Failure to provide the analysis FERC relied upon is itself a NEPA violation. 40 C.F.R. § 1501.12 (documents incorporated by reference must be provided and summarized).

While FERC has not directly addressed the issue, the record suggests that Rio Grande's ozone modeling in fact excluded cumulative emissions from Texas LNG (whether stationary or mobile). Rio Grande stated that its modeling combined "project impact" with "existing background ozone data," without mentioning foreseeable future cumulative emissions. R.2915, SLR Letter, 2 [JA____]. And unlike in 2020, FERC did not supplement the modeling with any additional estimate of cumulative impacts of the other terminal. *Compare* Remand Order, P150 [JA____-____], *with* R.1349, PP53-55 [JA____-____].

Rather than confront Vecinos' questions about cumulative ozone impacts, FERC suggests that it can ignore them. Rehearing Order, P29 [JA____-____]. FERC mistakenly argues that the *Vecinos* judgment held that the EIS's discussion of ozone satisfied NEPA. *Id.* (citing 2021 WL 3716769, at *1). This is wrong. The Court held that the analysis "in the ... [2020] rehearing order" was adequate, *because* it addressed the other terminals and cumulative marine vessel traffic, and the impact of

resulting ambient ozone levels. *id* at *4. But the Court did not hold that the EIS, which ignored these issues, satisfied NEPA's requirement to consider cumulative impacts. Here, FERC did not provide any parallel to the 2020 Rehearing Order's supplemental discussion of cumulative ozone impacts, nor did FERC provide any argument as to why such additional discussion was unnecessary.

IV. FERC FAILED TO RESPOND TO THE VECINOS REMAND REGARDING GREENHOUSE GASES

Vecinos held that FERC “failed to adequately analyze the impact of the projects’ greenhouse gas emissions” by failing to address 40 C.F.R. § 1502.21(c). 6 F.4th at 1329. *Vecinos* remanded with instructions to “explain whether 40 C.F.R. § 1502.21(c) calls for [FERC] to apply the social cost of carbon protocol or some other analytical framework, as ‘generally accepted in the scientific community’ within the meaning of the regulation, and if not, why not.” *Id.* at 1330. *Vecinos* further required FERC to “reconsider its determinations of public interest and convenience ... , along with its NEPA [analysis] of the projects’ impacts on climate change.” *Id.* at 1331.

On remand, FERC did not do this. FERC now predicts that the projects will emit 7.2 million tons of greenhouse gases annually. Remand Order PP96-97 [JA____-____]. FERC used the social cost of carbon⁹ to estimate that over the lifetime of the projects, these emissions would cause \$6.6 billion in harm. But FERC refused to consider that estimate, excluding its own social cost calculations in deciding whether these emissions were “significant” under NEPA, or in FERC’s Natural Gas Act public interest determination. FERC contended that this refusal was appropriate because, although the social cost of carbon is accepted for rulemaking, it is not appropriate for review of individual projects. Rehearing Order P56 [JA____]. But FERC offered no explanation for this contention, and crucially, did not dispute that other agencies, and the scientific community generally, accept social cost of carbon for project-level review. Nor does FERC explain how 40 C.F.R. § 1502.21(c) could permit FERC to refuse to use such a generally accepted method.

⁹ The social cost of carbon protocol has been updated to include methane and nitrous oxide, as well as carbon dioxide. Remand Order, P92 n.206 [JA____]. For consistency with *Vecinos*, we use “social cost of carbon” here.

FERC's only other social cost of carbon argument is to lament that there is not a universally-accepted threshold for when monetized environmental impacts become "significant" for NEPA purposes. Remand Order, P101 [JA____]. But FERC offers no argument as to why the \$6.6 billion worth of harm at issue here is not facially significant, nor does FERC explain why this question is different than the myriad other judgment calls agencies make under NEPA without pre-determined significance thresholds.

FERC also failed to respond to *Vecinos's* instruction to consider "other analytic framework[s]." 6 F.4th at 1330. On remand, *Vecinos* explained that, rather than using social cost, FERC could simply make an ad-hoc determination that the 7.2 million tons per year of greenhouse gases at issue here were significant, analogously to a prior FERC proceeding. Rehearing Request, 46-47 [JA____]. FERC did not respond to this argument. Rehearing Order, PP53-61 [JA____-____]

Finally, FERC failed to rationally explain its conclusion that the projects were in the public interest despite these greenhouse gas emissions and their associated climate costs. It is unclear how, or even whether, FERC considered these emissions in that analysis.

A. The Social Cost of Carbon Is Generally Accepted, Including for Use in Project Level Review

FERC has repeatedly conceded that the social cost of carbon is generally accepted in the scientific community. *Vecinos*, 6 F.4th at 1329 (citing *Florida Southeast Connection*, 164 FERC ¶ 61,099, P35 (Aug. 10, 2018)); *Tennessee Gas Pipeline Co.*, 180 FERC ¶ 61,205, P75 (2022), FERC does not dispute this acceptance here.

Instead, FERC argues that the social cost of carbon is unsuited for use in review of individual projects. Rehearing Order P56 [JA____]. Even if FERC can focus on this narrow context of project-level review, FERC still needs to ask whether the tool is “generally accepted” for use in that context. FERC entirely failed to ask this question. But the answer is plainly yes. The Council on Environmental Quality states that NEPA reviews should use social cost of carbon “in most cases.” *Interim NEPA Guidance on Consideration of Greenhouse Gases*, 88 Fed. Reg. 1196, 1202 (Jan. 9, 2023). As FERC has previously acknowledged, other agencies have used the tool for project-level NEPA review. *Mountain Valley Pipeline*, 163 FERC ¶ 61,197 P281 n.772 (June 15, 2018) (citing examples from the Bureau of Ocean Energy Management and Office of Surface

Mining Reclamation and Enforcement). Other agencies have continued to do so since *Mountain Valley*.¹⁰ FERC is therefore still in the position it was in in *Vecinos*: FERC has not disputed that social cost of carbon is “generally accepted,” and FERC has not offered any explanation as to why 40 C.F.R. § 1502.21(c) does not therefore require FERC to use this tool “notwithstanding [FERC’s] concerns” about it. 6 F.4th at 1329.

Moreover, separate from the question of scientific acceptance, FERC’s assertion that the social cost of carbon is unsuitable for project-level review is completely unsupported. The tool allows decision-makers to understand the costs, in dollars, of each additional ton of carbon dioxide emitted into the atmosphere. FERC offers no explanation as to why it matters whether those emissions result from an agency’s

¹⁰ See, e.g., Maritime Administration, Final EIS for the Sea Port Oil Terminal Deepwater Port Project, App’x BB (July 2022), *available at* <https://www.regulations.gov/document/MARAD-2019-0011-5032>; Bureau of Land Management, Draft SEIS for the Coastal Plain Oil and Gas Leasing Program, App’x F-3 to F-4 (August 2023), *available at* https://eplanning.blm.gov/public_projects/2015144/200492847/20085217/250091399/Coastal_Plain_Draft_SEIS_Vol3_508.pdf; Bureau of Ocean Energy Management, Final Programmatic EIS for the 2024-2029 National Outer Continental Shelf Oil and Gas Leasing Program, at 30-31 (Sept. 2023), *available at* https://www.boem.gov/sites/default/files/documents/oil-gas-energy/leasing/2024-2029NatOCSOilGasLeasing_FinalPEISVol1_0.pdf.

rulemaking or a project-level decision. *See, e.g., Cboe Futures Exchange, LLC v. SEC*, 77 F.4th 971, 978 (D.C. Cir. 2023) (holding that agency acted arbitrarily when it failed to explain why chosen action would further its stated goal).

B. FERC Must Exercise Its Own Judgment About Significance

FERC next argues that even if the social cost of carbon is a generally accepted method for translating tons of emissions into dollar value of social harm, that there is no generally accepted threshold for then deciding what level of monetized harm is “significant,” for NEPA purposes. Remand Order P93 [JA___]; Rehearing Order P57 [JA___].

Few, if any, of the other resources FERC evaluates have significance thresholds of this kind. But FERC exercises its policy judgment to determine the severity and significance of impacts to wetlands, recreation, wildlife, habitat, *etc.*, anyway. Authorization Order, Dissent of Comm’r Glick P14 [JA___] (collecting examples). FERC offers no justification for treating climate any differently. “The NEPA process involves an almost endless series of judgment calls.” *Duncan’s Point Lot Owners Ass’n v. FERC*, 522 F.3d 371, 376 (D.C. Cir. 2008) (cleaned up). FERC cannot refuse to exercise such judgment; FERC must do “the best

it can with the data it has.” *Mont. Wilderness Ass’n v. McAllister*, 666 F.3d 549, 559 (9th Cir. 2011).

Moreover, this is not a close call here. FERC estimated the lifetime social cost of the Rio Grande terminal and Rio Bravo pipeline’s greenhouse gas emissions as \$6.6 billion in the middle case. Remand Order PP98-99 [JA__-__]. FERC’s assertion that it cannot determine whether \$6.6 billion in damages is significant is absurd.

FERC mistakenly argues that *Center for Biological Diversity v. FERC*, 67 F.4th 1176, 1184 (D.C. Cir. 2023) supports FERC’s refusal to consider the social cost of carbon. Rehearing Order P59 n.176 [JA____]. But the question *Vecinos* put to FERC is whether 40 C.F.R. § 1502.21(c) required FERC to use the social cost of carbon “notwithstanding [FERC’s] concerns” about the tool. 6 F.4th at 1329. *Center for Biological Diversity* held that petitioners there had waived arguments about this regulation, and the Court did not discuss the regulation or whether the social cost of carbon was “generally accepted in the scientific community.” 67 F.4th at 1184.

Moreover, putting § 1502.21 aside, *Center Biological Diversity* relied on two other arguments that FERC abandoned in the Remand and

Rehearing Orders here: FERC’s claim that the social cost of carbon did not reflect physical impacts, and that there was no consensus as to a single discount rate. 67 F.4th at 1184. Whether because of FERC’s expanded understanding of the tool or for some other reason, FERC—correctly—no longer faults the tool in these regards. But neither *Center for Biological Diversity* nor any prior court held that FERC’s hesitancy to make a policy judgment about whether a particular amount of monetized environmental harm is “significant” is sufficient, standing alone, to justify refusing to consider the social cost of carbon.

C. FERC Ignored *Vecinos*’s Instruction to Consider Other Analytic Methods

Alternatively, FERC potentially could have avoided the social cost of carbon issue by evaluating the significance of greenhouse gas emission using some other method. FERC failed to respond to *Vecinos*’ argument that FERC should do so here. Rehearing Request, 46-47 [JA____-____].

FERC needs to evaluate the significance of greenhouse gas emissions *somehow*. FERC’s regulations require it to identify all “significant environmental impacts.” 18 C.F.R. § 380.7(a), (d). Council on Environmental Quality regulations similarly require that FERC take a

hard look at “environmental impacts ... *and the significance of those impacts.*” 40 C.F.R. § 1502.16(a)(1) (emphasis added). But the specific requirement to use “methods generally accepted in the scientific community” only applies when such methods would provide relevant information that is otherwise missing. 40 C.F.R § 1502.21(c).

Here, FERC simply could have made an ad-hoc determination of significance. Rehearing Request, 46-47 [JA___ - ___]. 7.2 million tons per year of emissions, like \$6.6 billion in monetized costs, are facially significant. FERC previously made an analogous ad-hoc determination in *Northern Natural Gas*, 174 FERC ¶ 61,189 (Mar. 22, 2021), which presented the converse situation of facially insignificant greenhouse gas emissions. There, FERC concluded that although it had not yet identified a significance threshold for greenhouse gases, the 315 tons per year of emissions at issue were clearly below any threshold FERC could plausibly adopt, and therefore insignificant. *Id.* PP29, 33. Here, in contrast, the 7.2 million tons per year of emissions at issue far exceed any plausible significance threshold. They are 70 times greater than the 100,000 ton per year threshold FERC proposed in its draft greenhouse gas policy, which was itself higher than thresholds proposed or adopted

by other agencies. *Interim GHG Policy*, 178 FERC ¶ 61,108, PP93-95 (Feb. 18, 2022) (summarizing thresholds proposed or adopted by various agencies).

Such an admission of significance, while straightforward, would still inform the rest of FERC's NEPA and Natural Gas Act analyses. While neither NEPA nor the Natural Gas Act prohibit agencies from taking actions with significant environmental impacts, a finding of significance identifies impacts that need to be taken seriously, and warrant mitigation. *Id.* PP79, 106, 108; *accord NEPA Guidance on Consideration of Greenhouse Gases*, 88 Fed. Reg. at 1206. But FERC failed to respond to Vecinos' request for such an ad-hoc determination.

D. FERC Failed to Comply with this Court's Instruction to Explain Whether and How Greenhouse Gases Impacted Its Public Interest Evaluation

Vecinos instructed FERC to "reconsider" its Natural Gas Act determinations regarding the public interest in light of FERC's revised analyses of impacts on climate change. 6 F.4th at 1331. FERC failed to do so. Neither the Remand Order or Rehearing Order provides discussion of whether or how greenhouse gas emissions influenced FERC's public interest evaluation.

FERC principally relies on a “presumption” favoring approval, Rehearing Order, P53 [JA____] (citing 15 U.S.C. § 717b(a)), but this presumption does not apply to, and does not justify, FERC’s approval of the Rio Bravo pipeline because it only applies to FERC’s section 3 authority over export terminals. *City of Oberlin, Ohio v. FERC*, 937 F.3d 599, 602-03 (D.C. Cir. 2019). Operation of the pipeline itself will emit 761,655 tons per year of carbon dioxide equivalent, Remand Order P97 [JA____], with a lifetime social cost ranging from \$179 million to \$1.03 billion. *Id.* P99 [JA____]. Section 7 of the Natural Gas Act required FERC to affirmatively demonstrate why the pipeline was in the public interest despite these costs, and FERC failed to do so.

Regarding the terminal, FERC was required to explain why evidence of the terminal’s extensive adverse climate impact did not rebut the presumption favoring approval. FERC must “identify the stepping stones” explaining its implicit conclusion that the presumption was not rebutted by the terminal’s 6.5 million tons of greenhouse gas emissions per year, causing billions of dollars in damage over the life of the project. *Gas Appliance Mfrs. Ass’n, Inc. v. Dep’t of Energy*, 998 F.2d 1041, 1046 (D.C. Cir. 1993) (quotation omitted). Remand Order PP96, 98 [JA____-

___]. . But, nothing in the record explains whether FERC viewed the Rio Grande terminal's greenhouse gas emissions here as too trivial to matter, important but outweighed by public benefits, or whether FERC simply ignored them entirely. This Court cannot uphold FERC's action "based only on [a] best guess as to what reasoning truly motivated it." *Williams Gas Processing-Gulf Coast Co. v. FERC*, 475 F.3d 319, 328-29 (D.C. Cir. 2006).

Finally, under sections 3 and 7, the decision before FERC is not merely whether to approve or deny a project, but also whether to require modifications. Here, one such modification would be to require carbon capture and sequestration at the terminal, as discussed in the following section. FERC cannot rationally determine whether such modifications are in the public interest without explaining how it weighs increases or reductions in greenhouse gas emissions.

V. FERC COULD NOT REAUTHORIZE THE PROJECTS WITHOUT CONSIDERING RIO GRANDE'S CARBON CAPTURE AND SEQUESTRATION PROPOSAL

In response to the *Vecinos* remand, Rio Grande proposed to add carbon capture and sequestration to the terminal to reduce operational

greenhouse gas emissions by a purported 90%. R.2926, CCS Application, 1-2 [JA____]. Rio Grande stated that this would enable FERC to expeditiously conclude that the project's greenhouse gas emissions were insignificant. *Id.* at 2. Rio Grande continues to represent that the terminal will use carbon capture and sequestration technology.¹¹

FERC violated NEPA by reauthorizing the terminal without considering this new information. Adding carbon capture and sequestration would have both beneficial and harmful impacts, seriously changing the effects of the broader Rio Grande LNG project. Because the carbon capture proposal is a connected action, analysis of it cannot be postponed. At the same time, it represents a new mitigation or design alternative that FERC must consider requiring now, rather than leaving the question of carbon capture to Rio Grande's future discretion.

¹¹ <https://www.next-decade.com/rio-grande-lng/>, last visited Dec. 6, 2023.

A. Carbon Capture and Sequestration Would Have Both Beneficial and Adverse Impacts

A hard look at Rio Grande's carbon capture and sequestration proposal is required now, it would have a wide range of effects, both beneficial and harmful, that FERC has not yet considered.

Rio Grande represents that carbon capture and sequestration would reduce operational greenhouse gas emissions by 6,038,873.36 tons per year, R.2915, Appendix 9.A [JA___], or 84% of the total operational emissions. Remand Order PP96-97 [JA___-___]. This represents billions of dollars in avoided costs. *Id.* at P98 [JA___]. Rio Grande also estimated that carbon capture would reduce conventional air pollution, *e.g.*, sulfur dioxide emissions by 94.8% and fine particulate matter by 49.2%. R.2915, Appendix 9.A [JA___].

However, carbon capture also has environmental costs. It requires additional infrastructure: a pipeline to transport captured carbon dioxide, a compressor to move gas through this pipeline, and a sequestration site where wells would be drilled to pump carbon underground for storage. R.2926, CCS Application, 8, 10 [JA___]; R.2926, Resource Report 1, RR1-8, RR1-9 [JA___]. This infrastructure will impact

surrounding wetlands, habitat, and cultural sites. Rio Grande's application stated that it had not yet settled on a specific sequestration site, but that any site would be ten miles away. R.2926, CCS Application, at 9-10 [JA____]. Because the terminal is surrounded by wetlands and the Brownsville shipping channel, a sequestration pipeline would necessarily cross wetlands or other waterbodies. *See* EIS, 4-58 [JA____] (map showing wetlands); Rehearing Request, 11 [JA____]. Similarly, this additional infrastructure also risks impacting sites that are culturally significant to the Carrizo/Comecrudo Tribe. R.2926, 4 [JA____]; Rehearing Request, 11 [JA____]. One of these sites is Garcia Pasture, a premier archaeological site of a pre-Columbian village dating to between 1000 and 1750 CE. R.2926, World Monuments Fund, 1 [JA____]. The additional infrastructure, and construction thereof, could adversely affect the preservation of burial sites, village ruins, and historic artifacts at the Garcia Pasture.

Implementing carbon capture at the terminal would also increase water consumption and hot water discharge: the National Energy Technology Laboratory estimates that the carbon capture equivalent to Rio Grande's proposal increases water intake by more than 60 percent—

which would mean an additional 2.5 million gallons a month here—and results in two and a half times the hot water discharge. Rehearing Request, 12 [JA____].

B. Rio Grande’s Carbon Capture and Sequestration Proposal Is A Connected and Reasonably Foreseeable Future Action

Because Rio Grande has formally proposed carbon capture and sequestration and continues to state that it intends to do so, FERC could not reauthorize the terminal without considering that proposal.

“NEPA ensures that important effects will not be overlooked or underestimated only to be discovered after resources have been committed or the die otherwise cast.” *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 349 (1989). This requires looking at the big picture, beyond the four corners of the individual action. FERC has overlapping obligations to consider “connected actions,” 40 C.F.R. § 1501.9(e)(1), “indirect effects,” *id.* § 1508.1(g)(2), “cumulative effects,” § 1508.1(g)(3), and to avoid “segmenting” review into piecemeal components. *Am. Rivers v. FERC*, 895 F.3d 32, 54 (D.C. Cir. 2018). Consequently, “proposals for ... actions that will have cumulative or synergistic environmental impact upon a region ... pending concurrently

before an agency ... must be considered together.” *Del. Riverkeeper Network v. FERC*, 753 F.3d 1304, 1313 (D.C. Cir. 2014) (quoting *Kleppe v. Sierra Club*, 427 U.S. 390, 410 (1976)).

One way in which these requirements apply here is that Rio Grande’s carbon capture and sequestration proposal is a connected action. It “will not proceed unless” the terminal is constructed “previously or simultaneously.” 40 C.F.R. § 1501.9(e)(1)(ii). FERC argues that the two actions are not connected because the terminal could proceed without the carbon capture project. Rehearing Order P20 [JA____]. But FERC wrongly presumes that bilateral dependence is required. Where this Court has found that FERC’s actions were *not* connected, *each* action had substantial independent utility. *City of Bos. Delegation*, 897 F.3d at 252; *Myersville Citizens for a Rural Cmty., Inc. v. FERC*, 783 F.3d 1301, 1326-27 (D.C. Cir. 2015); accord *Coal. On Sensible Transp., Inc. v. Dole*, 826 F.2d 60, 68 (D.C. Cir. 1987). Here, FERC does not claim that the carbon capture project has utility independent of the terminal. Nor could it, as “the purpose of the CCS Systems is solely to capture and store the [Rio Grande] LNG Terminal’s CO₂ emissions.” R.2926, CCS Application, 16 [JA____]. FERC has not explained why the carbon capture project’s

dependence on the terminal does not render the actions connected under § 1501.9(e)(1)(ii). And although not required by the regulations, the projects' "temporal overlap" also supports finding the two to be connected. *Del. Riverkeeper Network*, 753 F.3d at 1318. The carbon capture application was pending with FERC while Rio Grande was waiting for reauthorization of the terminal, and indeed, Rio Grande asked FERC to consider the two together, arguing that the carbon capture project should enable FERC to "expeditiously" reapprove the terminal. R.2926, CCS Application, 2 [JA___].

C. FERC Must Evaluate Whether to *Require* Carbon Capture and Sequestration As An Alternative

FERC must consider whether to require carbon capture and sequestration now, as a project design alternative, because FERC may not have the authority to do so later. NEPA requires agencies to rigorously explore all reasonable alternatives. 42 U.S.C. § 4332(C)(iii); 40 C.F.R. § 1502.14. While FERC has authority to modify the terminal proposal to require carbon capture as part of its authorization (or reauthorization), 15 U.S.C. § 717b(e)(3)(A), it is unclear whether FERC could *require* addition of this technology later on. In a later proceeding,

FERC could still *permit* carbon capture. But if the issue is left for a separate proceeding, Rio Grande could simply withdraw the separate application (if, for example, Rio Grande determined that it would be more profitable to forego this technology). In that circumstance, FERC may be unable to compel carbon capture, even if FERC were to conclude that the technology was technically feasible, economically feasible, and environmentally beneficial. Accordingly, in light of Rio Grande's determination that carbon capture and sequestration is feasible, this is a significant new circumstance and information that requires NEPA analysis now, while FERC still has authority to require this alternative as a condition while reconsidering the authorization on remand.

Southeastern Michigan Gas Co., 133 F.3d at 38.

Notably, here, Rio Grande proposed carbon capture specifically in response to the *Vecinos* remand, and argued that this alternative was pertinent to FERC's reconsideration. R.2926, CCS Application, 2 [JA___]. The issue here is not simply whether new information casts doubt on an issue that FERC has otherwise fully considered. *Vecinos* held that FERC has not taken a hard look at the impact of greenhouse gas emissions and their consistency with the public interest. 6 F.4th at 1330-31. Those

remanded NEPA and Natural Gas Act inquiries require FERC to not only identify environmental impacts, but to take a hard look at whether those impacts are justified. Evidence indicating that major environmental impacts could be mitigated without undermining a project's benefits calls that justification into question. 18 C.F.R. § 380.7(d); 40 C.F.R. 1502.14(e).

In an analogous context, the Ninth Circuit determined that an agency was required to supplement an EIS to consider new information undermining the EIS's conclusions of project need. *Alaska Wilderness Recreation and Tourism Association v. Morrison*, 67 F.3d 723, 728-30 (9th Cir. 1995). Even though this new information didn't change the conclusions about the environmental impacts of the EIS's preferred alternative, it undermined the rejection of less-harmful alternatives that would not have met the former project purpose, and thus, the justification for the preferred alternative's impacts. *Id.*; see also *Friends of Capital Crescent Trail*, 877 F.3d at 1061 (distinguishing *Alaska Wilderness* on factual grounds).

Factually, this case is more like *Alaska Wilderness* than *Friends of Capital Crescent*: the record indicates that carbon capture would avoid

millions of tons of greenhouse emission and billions of dollars in social cost, whereas in *Friends*, evidence did not indicate that other alternatives would actually reduce impacts. 877 F.3d at 1060-61. Doctrinally, this case is distinct because here, FERC has not lawfully “already considered” greenhouse gas emissions. *Id.* at 1056-57, 1060.

So long as FERC retains “a meaningful opportunity to weigh the benefits of the project versus the detrimental effects on the environment,” NEPA imposes a continuing obligation to consider new information. *Marsh*, 490 U.S. at 372. Here, in reconsidering whether to authorize the Rio Grande terminal, FERC must decide both whether the terminal is consistent with the public interest, 15 U.S.C. § 717b(a), and whether to modifications to the design are “necessary or appropriate.” § 717b(e)(3)(A). Confronted with Rio Grande’s conclusion that carbon capture and sequestration is feasible, NEPA and the Natural Gas Act required FERC to consider this alternative before authorizing the project.

VI. REMEDY

“The ordinary practice ... is to vacate unlawful agency action.” *Standing Rock Sioux Tribe v. U.S. Army Corps of Eng’rs*, 985 F.3d 1032,

1050 (D.C. Cir. 2021) (citation omitted). There is no reason to depart from that ordinary practice here. FERC has already had an opportunity to substantiate its decision on remand, but has “yet again come up with insufficient support.” *American Public Gas Ass’n v. U.S. Department of Energy*, 72 F.4th 1324, 1343 (D.C. Cir. 2023) (cleaned up). Additionally, Respondents will not be able to satisfy their burden that vacatur would be disruptive. *Eagle County, Colorado v. Surface Transp. Bd.*, 82 F.4th 1152, 1196 (D.C. Cir. 2023).

CONCLUSION

For the reasons stated above, Vecinos respectfully request that the Court grant the petition and vacate FERC’s Remand Order.

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Respectfully submitted,

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CERTIFICATE OF COMPLIANCE

Pursuant to Federal Rule of Appellate Procedure Rule 32(g)(1), I certify that the foregoing brief complies with:

1. the type-volume limitations established by this Court's November 15, 2023 briefing order, setting a limit of 13,000 words for Petitioners' opening brief, because this brief contains 12,988, excluding the parts of the brief exempted by Rule 32(f); and
2. the typeface requirements of Rule 32(a)(5) and the type style requirements of Rule 32(a)(6) because it has been prepared in a proportionally spaced typeface (14-point) using Microsoft Word (the same program used to calculate the word count).

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CERTIFICATE OF SERVICE

I hereby certify that on this 6th day of December, 2023, I have served the foregoing Joint Opening Brief for Petitioners, including the Addendum thereto, on all registered counsel through the Court's electronic filing system (ECF).

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